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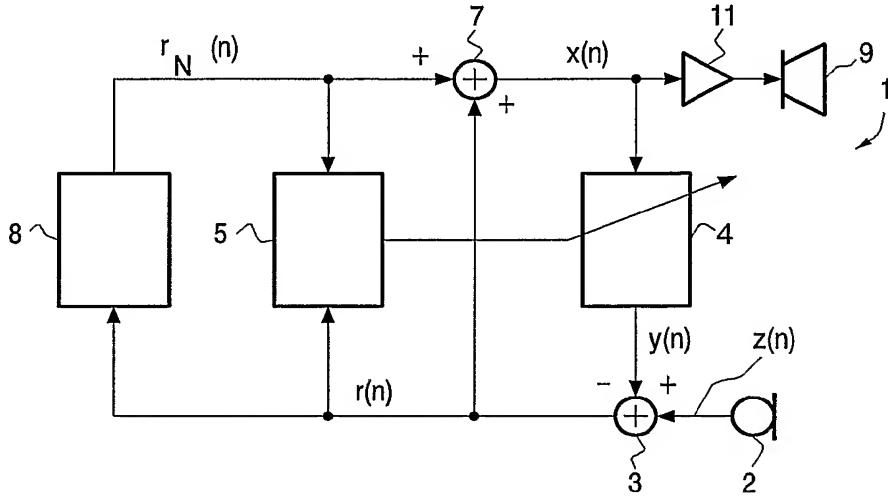
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(54) Title: ACOUSTIC FEEDBACK SUPPRESSION



(57) **Abstract:** A device (1) for acoustic feedback compensation comprises an adaptive filter (4), an adjustment unit (5) for adjusting coefficients of the adaptive filter, a combination unit (3) for subtracting an adaptive filter signal from an input signal so as to produce a residual signal, and a noise unit (8) for producing a noise signal. The noise unit (8) is arranged for producing masked noise on the basis of the residual signal, a noise signal having a frequency spectrum controlled by the residual signal. An auditory masking model may be used to shape the noise spectrum. The noise signal may have a smaller amplitude than the residual signal at frequencies where the residual signal has a relatively large amplitude, and a larger amplitude than the residual signal at some frequencies where the residual signal has a relatively small amplitude.

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